PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2004OC-708KR	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No.	International filing date (day/month	(Earliest) Priority Date (day/month/year)
PCT/KR2004/000930	22 APRIL 2004 (22.04.200	
Applicant		
HALLA CLIMATE CONTROL	CORPORATION et al	
This International search report has been preport to Article 18. A copy is being transmitted to the	ared by this International Searching ne International Bureau.	Authority and is transmitted to the applicant according
This international search report consists of a to	otal of5 sheets. y of each prior art document cited in	this report.
Basis of the report a. With regard to the language, the intellanguage in which it was filed, unless.	rnational search was carried out on some otherwise indicated under this item	the basis of the international application in the
The international search withis Authority (Rule 23.1	was carried out on the basis of a tran (b)).	slation of the international application furnished to
b. With regard to any nucleotide a	nd/or amino acid sequence disclos	ed in the international application, see Box No. I.
2. Certain claims were found uns	searchable (See Box No. II)	
3. Unity of invention is lacking (S	See Box No. III)	
4. With regard to the title,		
the text is approved as submitted	•	
the text has been established by	this Authority to read as follows:	
		•
5. With regard to the abstract,		
X the text is approved as submitted		
		ority as it appears in Box No. IV. The applicant
·	date of mailing of this international	search report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be public	· · · · · · · · · · · · · · · · · · ·	<u> </u>
X as suggested by the applica		
because the applicant failed	55 5	
because this figure better ch b. none of the figure is to be publish		
o none of the righte is to be publish	ica with the adstract.	

INTERNATIONAL SEARCH REPORT

international application No.

PCT/KR2004/000930

BOX NO. 11 Observations where certain claims were found unsearchable (Continuation of item 2 of inst sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: 1 to 6, 8 to 11 because they relate to parts of the international application that do not comply with the prescribed requirements to such an
extent that no meaningful international search can be carried out, specifically:
The present invention is to provide a motor compressor, wherein a part of the refrigerant which is to be flowed into a swash plate chamber passes through a motor chamber, so that the cooling efficiency of an motor is improved and at the same time the lubrication of an operation part located in the chamber can be smoothly performed. (Continued on Supplemental Sheet.)
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest
No protest accompanied the payment of additional search fees.

INTERNATIONA SEARCH REPORT

iternational application No. PCT/KR2004/000930

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 F04B 39/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC F04D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	EP 1116883 A2 (Kabushiki kaisha Toyoda Jidoshokki Seisakusho) 18 July 2001 Claims 1-5; Figs. 7-8; paragraphs [0053]-[0058]	7
A	JP 2001-200785 A (Kabushiki kaisha Toyoda Jidoshokki Seisakusho) 27 July 2001 Claims 4-5; Fig. 1; paragraphs [0017]-[0038]	7
Α	JP 2001-193638 A (Kabushiki kaisha Toyoda Jidoshokki Seisakusho) 17 July 2001 Claim 6; Figs. 1-2; paragraphs [0017]-[0040]	7
Α	JP 56-47687 A (Hitachi Ltd.) 30 April 1981 Claims 1-2; Fig. 1; pages 444-446	7

ı	Further of	documents a	are listed	in the	continuation	of Box	C.
1	 					V V	

X See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

28 JULY 2004 (28.07.2004)

Date of mailing of the international search report

28 JULY 2004 (28.07.2004)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

PARK, Jong Joo

Telephone No. 82-42-481-5961



INTERNATIONAL SEARCH REPORT

Information on patent family members

international application No.

PCT/KR2004/000930

Patent document cited in search report	Publication date	Patent family member(s)	Publication . date
EP 1116883 A2	18.7.2001	DE 1116002 D2	10.07.000
EF 1110003 A2	10.7.2001	DE 1116883 R2 US 6565329 BB	18.07.2001 20.05.2003
		US 2001007635 AA	12.07.2003
		EP 1116883 A3	23.10.2002
	•	FR 1116883 R2	18.07.2001
		IT 1116883 R2	18.07.2001
		JP 2001193639 A2	17.07.2001
JP 2001-200785 A	27.7.2001	US 2001014289 AA DE 10101975 C2 DE 10101975 A1 JP 2001193639 A2	16.08.2001 09.10.2003 08.11.2001 27.07.2001
JP 2001-193638 A	17.7.2001	US 6632074 BB	14.10.2003
		US 2003059316 AA	27.03.2003
		WO 200151809 A1	19.07.2001
		DE 10190281 T	02.05.2002
		JP 2001193639 A2	27.07.2001

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/000930

Box No. 11 (2)

However, claim 1 lacks a component, that is, a connection path which is needed for the refrigerant taken into a motor chamber to be taken into bores of a cylinder block after being cooled, which causes the refrigerant taken into the motor chamber not to be circulated. Consequently, claim 1 lacks a component essential to the invention, and consequently is unclear. Therefore, the International Searching Authority cannot perform an effective search regarding said claim 1.

The International Searching Authority cannot perform an effective search regarding claims 2-6 and 8-11 for the same reason as stated above regarding claim 1, either.

Form PCT/ISA/210 (extra sheet) (January 2004)